

FIG. 1

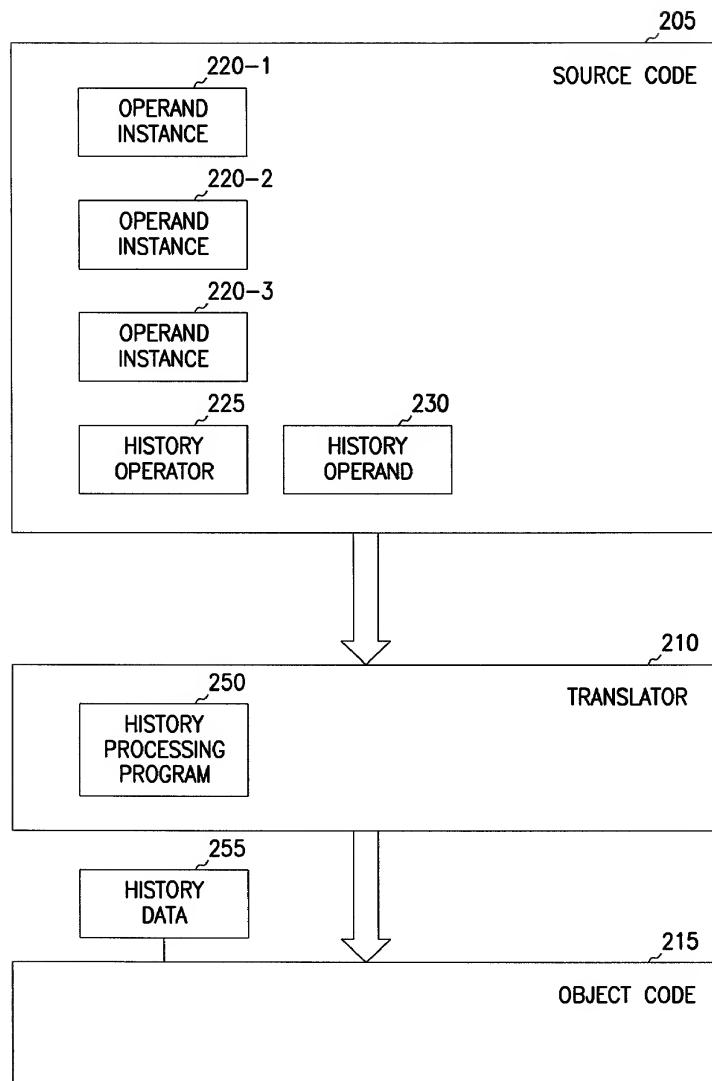


FIG. 2

305

	$\langle x \rangle(1)$	$\langle x \rangle(2)$	$\langle x \rangle(N)$
307 ~ $\langle x \rangle$	VALUE 1	VALUE 2	$\dots$
	310-1	310-2	310-3

FIG. 3A

350

355 ~ $\langle y \rangle(1)$	VALUE 1	LOCATION 1	TIMESTAMP 1
360 ~ $\langle y \rangle(2)$	VALUE 2	LOCATION 2	TIMESTAMP 2
	$\dots$	$\dots$	$\dots$
365 ~ $\langle y \rangle(N)$	VALUE N	LOCATION N	TIMESTAMP N

FIG. 3B

FIG. 4

```
405
p = dList;
sum = 0;
count = 0;
while (p != NULL) {
    count += 1;
    sum += p->value;
    p = p->tail;
}
print ("average %f\n", sum/count);
```

```
450
p = dList;
while (p != NULL) {
    465~ x = p->value;
    p = p->tail;
}
print ("average %f\n", average<x>);
```

400

FIG. 5

```
p = dList;
firstTime = true;
while (p != NULL) {
    if (firstTime) {
        firstTime = false;
    } else {
        printf(",");
        printf("%d", p->value);
    }
    p = p->tail;
}
```

```
p = dList;
565 ~ while (p != NULL) {
    if (count<while> != 1) {
        printf(" ");
        printf("%d", p->value);
        p = p->tail;
    }
}
```

500

505

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FIG. 6

```
607 ~ int max = q[0];
for (i = 0; i < ARRAY_SIZE; i++) {
    if (max < q[i]) {
        max = q[i];
    }
}
printf ("Max is %f\n", max);
```

```
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650
655
660
665 ~ x = q[i];
}
printf ("Max is %f\n", max);
```

600

FIG. 7

```
706 ~ intVector list;
while (feof(aFile)) {
    int x = read(aFile);
    list.append(x);
}
for (i = 0; i < list.length(); i++) {
    printf("%d %f", i, list[i]);
}
```

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```

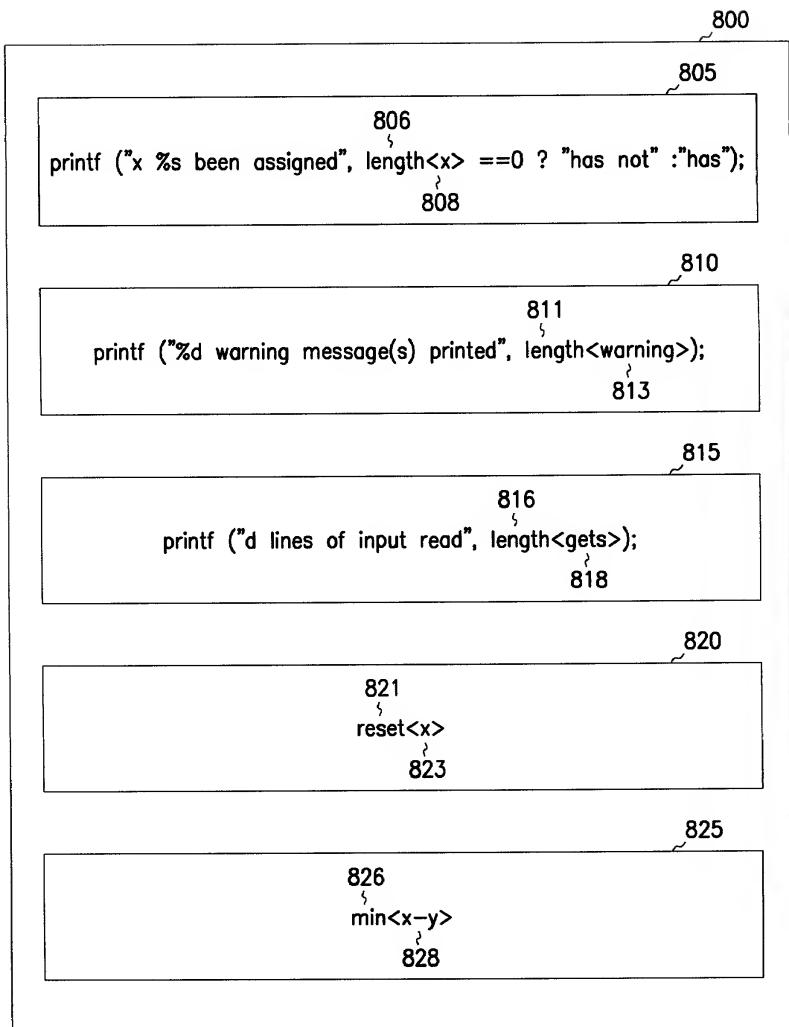


FIG. 8

```

906~ int counter = 0;
907~ while ( . . . ) {
908~   if (test(x)) {
909~     counter += 1;
910~     x = f(x);
911~   }
912~   printf ("count: %d", counter);
913~ }
914~ printf ("count: %d", counter);
915~ }

916~ int main()
917~ {
918~   int i;
919~   for (i = 0; i < 10; i++) {
920~     if (test(i)) {
921~       cout << i << endl;
922~     }
923~   }
924~   return 0;
925~ }

926~ int test(int x)
927~ {
928~   if (x < 0) {
929~     cout << "negative" << endl;
930~     return 1;
931~   }
932~   if (x > 10) {
933~     cout << "greater than 10" << endl;
934~     return 1;
935~   }
936~   if (x % 2 == 0) {
937~     cout << "even" << endl;
938~     return 1;
939~   }
940~   cout << "odd" << endl;
941~   return 0;
942~ }

```

FIG. 9

```

1006~ int thenCount = 0;
1007~ int elseCount = 0;
if (x > 0) {
    thenCount += 1;
    y = dx + dy;
} else {
    elseCount +=1;
    y = dx - dy;
}
printf ("then: %d, else: %d",
        thenCount,
        elseCount);

```

```

postTest:
  if (x > 0) {
    065-1~ y = dx + dy;
  } else {
    065-2~ y = dx - dy;
  }
  printf ("%d, else: %d", count<postTest.then>, ~1060-1);
  055-1~ count<postTest.then>, ~1060-2);
  055-2~ count<postTest.else>);
  1060-2

```

FIG. 10

```
1106 - int limit = 0;  
x = f(0);  
do {  
    limit += 1;  
    x = f(x);  
    if (limit > 10000) break;  
} while (abs(x - prev<x>) > epsilon);
```

```
x = f(0);  
do {  
    x = f(x);  
    if (count<while> > 10000) break;  
} while (abs(x - prev<x>) > epsilon);
```

FIG. 11

FIG. 12

```
p = aList;
while (p != NULL) {
    x = p.head();
    match:
        found = equal(p.head, key);
        if (found) break;
    p = p.tail();
}
print (searching required %d probes\n", length<match:equal>);
```

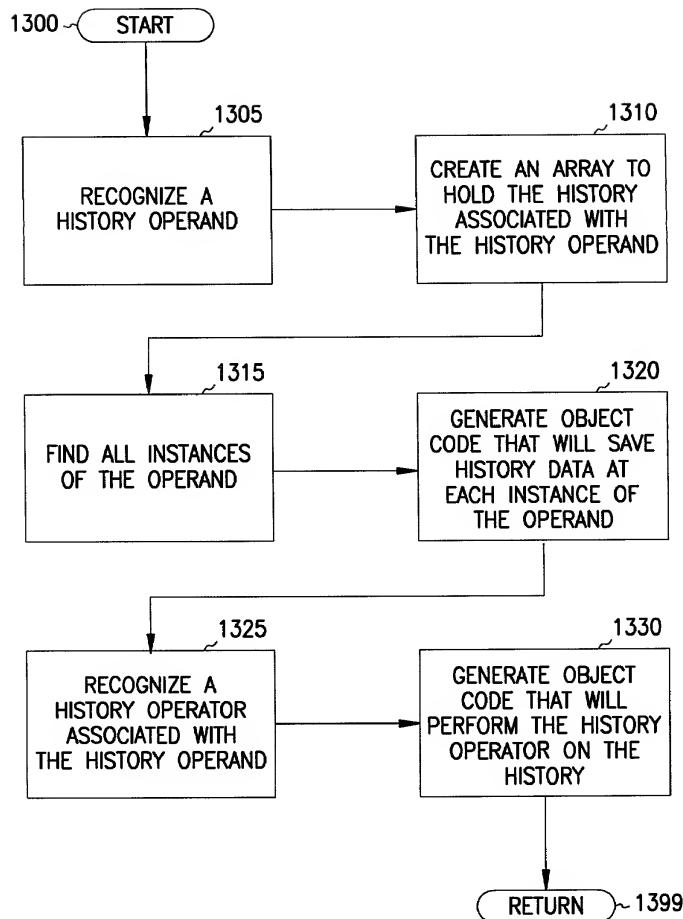


FIG. 13